

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A wireless communication device, comprising:

a directional wireless communication unit that performs a directional wireless communication with the other wireless communication device;

a short-range wireless communication unit that performs a short-range wireless communication with the other wireless communication device based on a communication identification information for the short-range wireless communication; and

a control unit that controls the directional wireless communication unit and the short-range wireless communication unit, wherein the control unit includes:

a portion that establishes a directional wireless communication path to the other wireless communication device;

a portion that transmits the communication identification information to the other wireless communication device through the directional wireless communication path;

a portion that stores the communication identification information of the other wireless communication device when receiving the communication identification information of the other wireless communication device from the other wireless communication device through the directional wireless communication path; and

a portion that determines whether to permit a connection request for the short-range wireless communication, when receiving the connection request for the short-range wireless communication, based on comparison between the communication identification information of a wireless communication device which sends the

connection request for the short-range wireless communication and the stored communication identification information.

Claim 2 (original): The wireless communication device according to claim 1, wherein the control unit includes:

a portion that stores authentication information when receiving the authentication information for the short-range wireless communication from the other wireless communication unit through the directional wireless communication path; and

a portion that performs authentication for the short-range wireless communication based on the authentication information.

Claim 3 (currently amended): The wireless communication device according to claim ~~1~~2, wherein the control unit includes:

a portion that produces authentication information for performing the short-range wireless communication with the other wireless communication device;

a portion that transmits the authentication information for performing the short-range wireless communication to the other wireless communication device through the directional wireless communication path; and

a portion that performs authentication for the short-range wireless communication based on the authentication information.

Claim 4 (currently amended): The wireless communication device according to claim ~~2~~2~~or 3~~, wherein while performing the authentication, the authentication information of respective wireless communication devices are required to be the same.

Claim 5 (currently amended): The wireless communication device according to ~~any one of claims 1 to 4~~ claim 1, wherein the

communication identification information is assigned uniquely to the short-range wireless communication unit.

Claims 6 through 9 (canceled)

Claim 10 (currently amended): The wireless communication device according to ~~any one of claims 1 to 9~~ claim 1, wherein the short-range wireless communication is Bluetooth(TM) or a wireless Local Area Network which enables communication within a predetermined range.

Claim 11 (currently amended): The wireless communication device according to ~~any one of claims 1 to 10~~ claim 1, wherein the directional wireless communication is implemented as one of an infrared communication, a visible light communication and a non-contact communication to provide one-to-one communication.

Claim 12 (currently amended): A wireless communication method, comprising:

establishing a directional wireless communication path for performing directional wireless communication with the other wireless communication device;

transmitting communication identification information for a short-range communication to the other wireless communication device through the directional wireless communication path;

receiving, from the other wireless communication device through the directional wireless communication path, the communication identification information thereof;

storing the received communication identification information of the other wireless communication device; and

determining whether to permit a connection request for the short-range wireless communication when receiving the connection

request for the short-range wireless communication based on comparison between the communication identification information of a wireless communication device which sends the connection request for the short-range wireless communication and the stored communication identification information.

Claim 13 (original): The wireless communication method according to claim 12, further comprising,

receiving authentication information for the short-range wireless communication from the other wireless communication device through the directional wireless communication path;

storing the authentication information;

establishing a communication path for the short-range wireless communication to the other wireless communication device when the connection request for the short-range wireless communication is permitted; and

performing authentication for the short-range wireless communication through the communication path based on the authentication information.

Claim 14 (currently amended): The wireless communication method according to claim 12 ~~or 13~~, further comprising:

producing authentication information for performing the short-range wireless communication with the other wireless communication device;

transmitting the authentication information for the short-range wireless communication to the other wireless communication device through the directional wireless communication path; and

performing authentication for the short-range wireless communication based on the authentication information.

Claim 15 (currently amended): The wireless communication method according to claim 13 ~~or 14~~, wherein while performing the authentication, the authentication information of respective wireless communication devices are required to be the same.

Claim 16 (currently amended): The wireless communication method according to ~~any one of claims 12 to 15~~ claim 12, wherein the communication identification information is assigned uniquely to the short-range wireless communication unit.

Claims 17 through 19 (canceled)

Claim 20 (currently amended): The wireless communication method according to ~~any one of claims 17 to 19~~ claim 17, wherein while performing the authentication, the authentication information of respective wireless communication devices are required to be the same.

Claim 21 (currently amended): The wireless communication method according to ~~any one of claims 12 to 20~~ claim 12, wherein the short-range wireless communication is Bluetooth(TM) or a wireless Local Area Network which enables communication within a predetermined range.

Claim 22 (currently amended): The wireless communication method according to ~~any one of claims 12 to 21~~ claim 12, wherein the directional wireless communication is implemented as one of an infrared communication, a visible light communication and a non-contact communication to provide one-to-one communication.

Claim 23 (new): A wireless communication device, comprising:
a directional wireless communication unit that performs a

directional wireless communication with the other wireless communication device;

a short-range wireless communication unit that performs a short-range wireless communication with the other wireless communication device based on a communication identification information for the short-range wireless communication; and

a control unit that controls the directional wireless communication unit and the short-range wireless communication unit, wherein the control unit includes:

a portion that establishes a directional wireless communication path to the other wireless communication device;

a portion that transmits the communication identification information to the other wireless communication device through the directional wireless communication path;

a portion that stores the communication identification information of the other wireless communication device when receiving the communication identification information of the other wireless communication device from the other wireless communication device through the directional wireless communication path; and

a portion that performs a connection request of the short-range wireless communication by using the communication identification information received from the other wireless communication device through the directional wireless communication path in a case of performing the connection request of the short-range wireless communication.

Claim 24 (new): A wireless communication method, comprising:
establishing a directional wireless communication path for performing directional wireless communication with the other wireless communication device;

transmitting communication identification information for a short-range communication to the other wireless communication

device through the directional wireless communication path;

receiving, from the other wireless communication device through the directional wireless communication path, the communication identification information thereof;

storing the received communication identification information of the other wireless communication device; and

performing a connection request of the short-range wireless communication by using the communication identification information of the other wireless communication device received from the other wireless communication device through the directional wireless communication path in a case of performing the connection request of the short-range wireless communication.

Claim 25 (new): The wireless communication device according to claim 23, wherein the control unit includes:

a portion that stores authentication information when receiving the authentication information for the short-range wireless communication from the other wireless communication unit through the directional wireless communication path; and

a portion that performs authentication for the short-range wireless communication based on the authentication information.

Claim 26 (new): The wireless communication device according to claim 23, wherein the control unit includes:

a portion that produces authentication information for performing the short-range wireless communication with the other wireless communication device;

a portion that transmits the authentication information for performing the short-range wireless communication to the other wireless communication device through the directional wireless communication path; and

a portion that performs authentication for the short-range wireless communication based on the authentication information.

Claim 27 (new): The wireless communication device according to claim 25, wherein while performing the authentication, the authentication information of respective wireless communication devices are required to be the same.

Claim 28 (new): The wireless communication device according to claim 23, wherein the communication identification information is assigned uniquely to the short-range wireless communication unit.

Claim 29 (new): The wireless communication device according to claim 23, wherein the short-range wireless communication is Bluetooth(TM) or a wireless Local Area Network which enables communication within a predetermined range.

Claim 30 (new): The wireless communication device according to claim 23, wherein the directional wireless communication is implemented as one of an infrared communication, a visible light communication and a non-contact communication to provide one-to-one communication.

Claim 31(new): The wireless communication method according to claim 24, further comprising,

receiving authentication information for the short-range wireless communication from the other wireless communication device through the directional wireless communication path;

storing the authentication information;

establishing a communication path for the short-range wireless communication to the other wireless communication device when the

connection request for the short-range wireless communication is permitted; and

performing authentication for the short-range wireless communication through the communication path based on the authentication information.

Claim 32 (new): The wireless communication method according to claim 24, further comprising:

producing authentication information for performing the short-range wireless communication with the other wireless communication device;

transmitting the authentication information for the short-range wireless communication to the other wireless communication device through the directional wireless communication path; and

performing authentication for the short-range wireless communication based on the authentication information.

Claim 33 (new): The wireless communication method according to claim 31, wherein while performing the authentication, the authentication information of respective wireless communication devices are required to be the same.

Claim 34 (new): The wireless communication method according to claim 24, wherein the communication identification information is assigned uniquely to the short-range wireless communication unit.

Claim 35 (new): The wireless communication method according to claim 24, wherein while performing the authentication, the authentication information of respective wireless communication devices are required to be the same.

Claim 36 (new): The wireless communication method according to claim 24, wherein the short-range wireless communication is Bluetooth(TM) or a wireless Local Area Network which enables communication within a predetermined range.

Claim 37 (new): The wireless communication method according to claim 24, wherein the directional wireless communication is implemented as one of an infrared communication, a visible light communication and a non-contact communication to provide one-to-one communication.